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1 [Special issue on ICML: Learning probabilistic models of link structure](#)



Lisa Getoor, Nir Friedman, Daphne Koller, Benjamin Taskar

 March 2003 **The Journal of Machine Learning Research**, Volume 3

 Full text available: pdf(479.67 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Most real-world data is heterogeneous and richly interconnected. Examples include the Web, hypertext, bibliometric data and social networks. In contrast, most statistical learning methods work with "flat" data representations, forcing us to convert our data into a form that loses much of the link structure. The recently introduced framework of *probabilistic relational models* (PRMs) embraces the object-relational nature of structured data by capturing probabilistic interactions between att ...

2 [From promoter sequence to expression: a probabilistic framework](#)



Eran Segal, Yoseph Barash, Itamar Simon, Nir Friedman, Daphne Koller

 April 2002 **Proceedings of the sixth annual international conference on Computational biology**

 Full text available: pdf(3.22 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present a probabilistic framework that models the process by which transcriptional binding explains the mRNA expression of different genes. Our joint probabilistic model unifies the two key components of this process: the prediction of gene regulation events from sequence motifs in the gene's promoter region, and the prediction of mRNA expression from combinations of gene regulation events in different settings. Our approach has several advantages. By learning promoter sequence motifs that ar ...

Results 1 - 2 of 2

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	560	learning near2 structure	USPAT; US-PGPU B; EPO; JPO; DERWEN T; IBM_TD B	2004/06/24 16:57	
2	BRS	L2	6	L1 same (learning near2 bayesian)	USPAT; US-PGPU B; EPO; JPO; DERWEN T; IBM_TD B	2004/06/24 16:58	

	Type	Hits	Search Text	DBs
30	BRS	77	hypothesis near2 space	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
31	BRS	3	(hypothesis near2 space) and (learning near2 structure\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
32	BRS	353	structure\$ near4 hypotheses	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
33	BRS	35	(structure\$ near4 hypotheses) and (evaluat\$ near4 hypotheses)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
34	BRS	28	(search\$ same (hypothesis near2 space))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
35	BRS	11	((search\$ same (hypothesis near2 space))) and score	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
36	BRS	1508	706/16 or 706/26 or 706/25	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
37	BRS	61	(706/16 or 706/26 or 706/25) and (classes near2 objects)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
38	BRS	0	((706/16 or 706/26 or 706/25) and (classes near2 objects)) and ((relational near2 (schemal or structure\$)) or RDBMS)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
39	BRS	11	((706/16 or 706/26 or 706/25) and (classes near2 objects)) and relational	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
40	BRS	0	((((706/16 or 706/26 or 706/25) and (classes near2 objects)) and relational) and (estimate\$)) and (training near2 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
41	BRS	4	((((706/16 or 706/26 or 706/25) and (classes near2 objects)) and relational) and (estimate\$))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
42	BRS	1	(((((706/16 or 706/26 or 706/25) and (classes near2 objects)) and relational) and (estimate\$)) and training	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
43	BRS	23236	relational or RDBMS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
44	BRS	109	(relational or RDBMS) and (train\$ near2 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
45	BRS	8	((relational or RDBMS) and (train\$ near2 database)) and (learn\$ near4 task)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
46	BRS	2	((((relational or RDBMS) and (train\$ near2 database)) and (learn\$ near4 task)) and (classes same objects)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
47	BRS	151	(classes same objects) and (train\$ near4 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
48	BRS	8	((classes same objects) and (train\$ near4 database)) and (relational near2 (model\$ or structure\$ or schema\$))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
49	BRS	1	((((classes same objects) and (train\$ near4 database)) and (relational near2 (model\$ or structure\$ or schema\$))) and estimate	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
50	BRS	21	(relational near2 models) and (estimat\$ near5 query)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
51	BRS	9	((relational near2 models) and (estimat\$ near5 query)) and (classes same objects)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
52	BRS	328	(train\$ near3 database\$) same (schema or model\$ or structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
53	BRS	0	((train\$ near3 database\$) same (schema or model\$ or structure)) and ((probabilit\$ or statistic) near2 relational)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
54	BRS	204	((train\$ near3 database\$) same (schema or model\$ or structure)) and (probabilit\$ or statistic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
55	BRS	4	((((train\$ near3 database\$) same (schema or model\$ or structure)) and (probabilit\$ or statistic)) and (learning near2 task)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
56	BRS	2	(((((train\$ near3 database\$) same (schema or model\$ or structure)) and (probabilit\$ or statistic)) and (learning near2 task)) and classes	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Type	Hits	Search Text	DBs
57	BRS	1	(((((train\$ near3 database\$) same (schema or model\$ or structure)) and (probabil\$ or statistic)) and (learning near2 task)) and classes and objects	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
58	BRS	2	5768578.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
59	BRS	0	5768578.pn. and (estimate near query)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
60	BRS	1	5768578.pn. and estimate	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
61	BRS	33	estimate same schema	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
62	BRS	3	(estimate same schema) and (classes same objects)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
63	BRS	1	((estimate same schema) and (classes same objects)) and train	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
64	BRS	0	((estimate same schema) and classes and objects) and (train\$ near2 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
65	BRS	14	(estimate same schema) and classes and objects	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
66	BRS	0	(training near2 database) same (statistic near2 models)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
67	BRS	714	(training near2 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
68	BRS	18	((training near2 database)) and (learning near2 task)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
69	BRS	17	((training near2 database)) and (learning near2 task)) and (search or retriev\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
70	BRS	4	((structure near2 learning) and (train\$ near2 database)) and statistic	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
71	BRS	9	(((((training near2 database)) and (learning near2 task)) and (search or retriev\$)) and statistic	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
72	BRS	3	6401083.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
73	BRS	1	6401083.pn. and classes	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
74	BRS	29429	classes same objects	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
75	BRS	1331	(classes same objects) and ((relational or database) near2 (schema or model\$))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
76	BRS	437	((classes same objects) and ((relational or database) near2 (schema or model\$))) and (statistic or	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
77	BRS	196	((classes same objects) and ((relational or database) near2 (schema or model\$))) and (statistic or probabil\$)) and estimat\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
78	BRS	7	((classes same objects) and ((relational or database) near2 (schema or model\$))) and (statistic or probabil\$)) and estimat\$) and (train\$ near2 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
79	BRS	12689	database near2 tables	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
80	BRS	2344	(database near2 tables) and (objects near2 oriented)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
81	BRS	1693	((database near2 tables) and (objects near2 oriented)) and classes and objects	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
82	BRS	0	((database near2 tables) and (objects near2 oriented)) and classes and objects) and (training near2 data)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
83	BRS	32	((database near2 tables) and (objects near2 oriented)) and classes and objects) and (train\$ near2 data)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB